Fig. 1

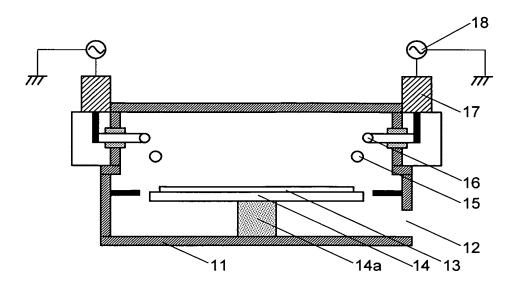


Fig. 2

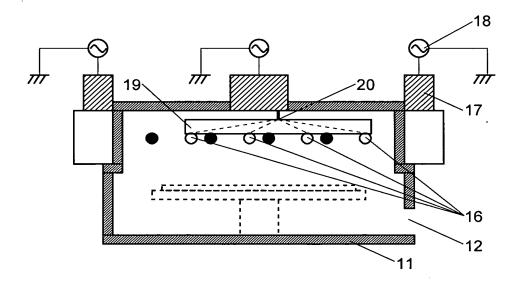
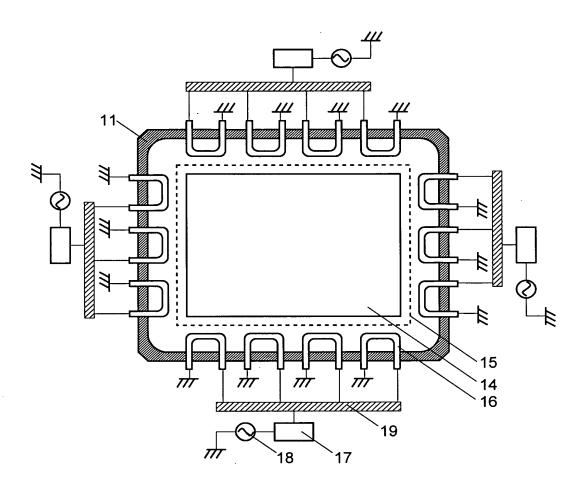
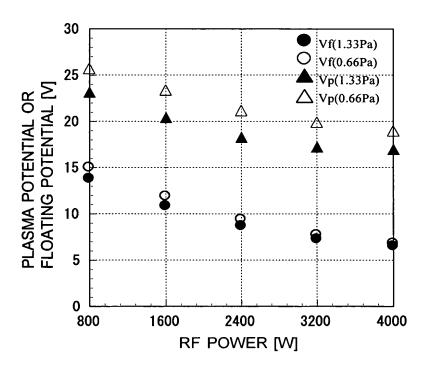


Fig. 3



3

Fig. 4A



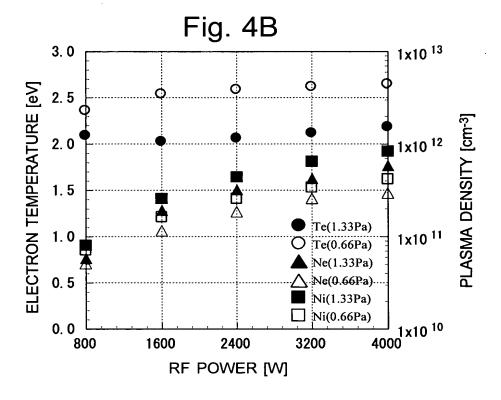
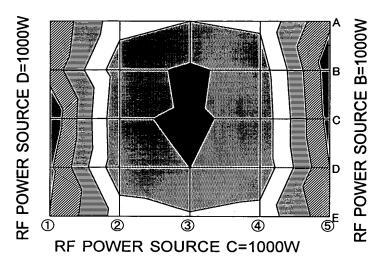


Fig. 5A

RF POWER SOURCE A=1000W

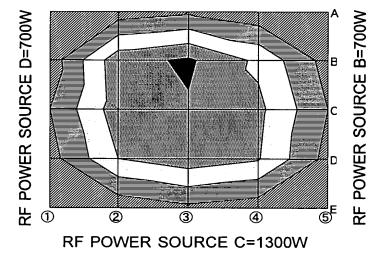


ION SATURATION CURRENT DENSITY UNIT: μ A/cm<sup>2</sup>

> ■ 55.00 -60.00 ■ 50.00 -55.00 ■ 45.00 -50.00 □ 40.00 -45.00 ■ 35.00 -40.00 ■ 30.00 -35.00

Fig. 5B

## RF POWER SOURCE A=1300W



## ION SATURATION CURRENT DENSITY UNIT: μA/cm<sup>2</sup>

55.00 -60.00 50.00 -55.00 45.00 -50.00 40.00 -45.00 35.00 -40.00 30.00 -35.00

Fig. 6

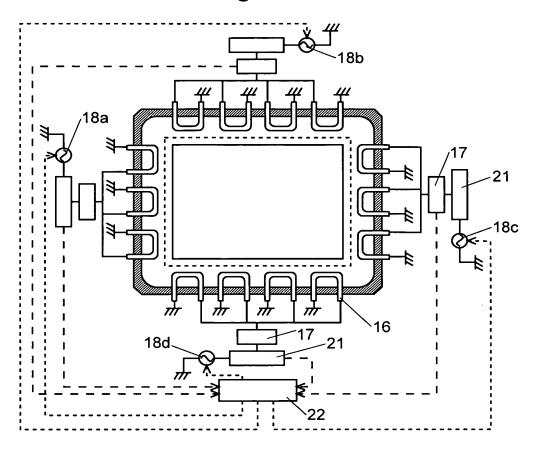
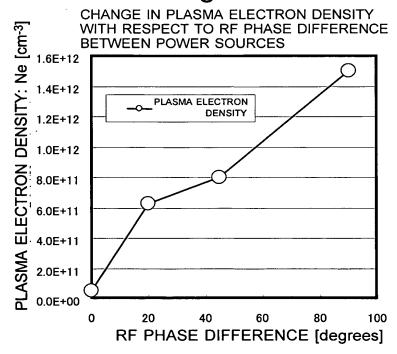
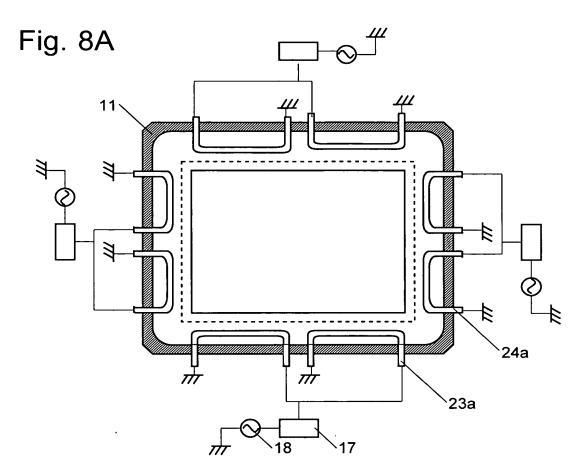


Fig. 7





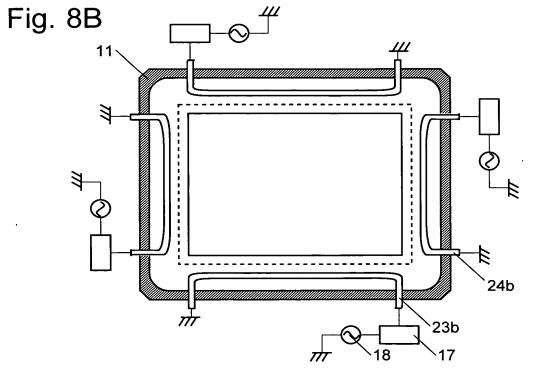


Fig. 9

CHANGE IN PLASMA POTENTIAL AND AMPLITUDE OF FLOATING POTENTIAL WITH RESPECT TO ANTENNA SHAPE

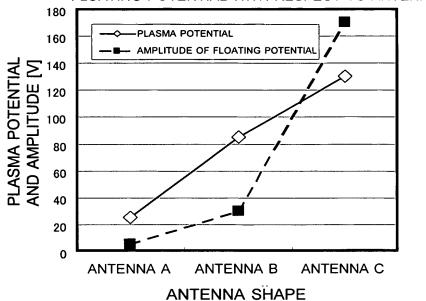


Fig. 10

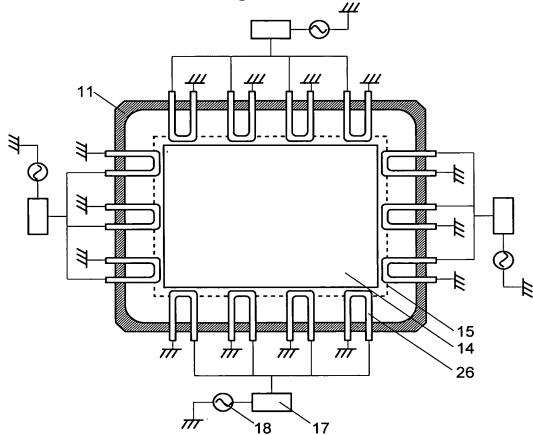


Fig. 11

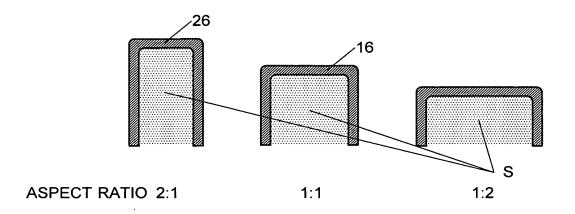
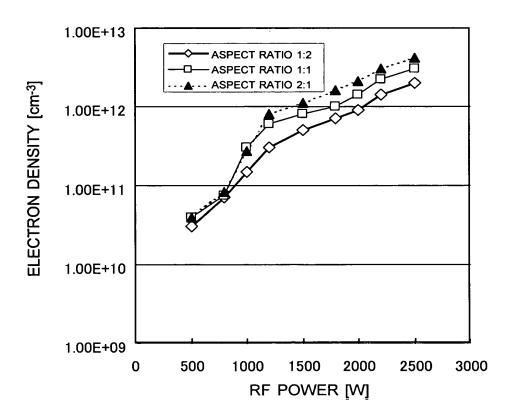


Fig. 12



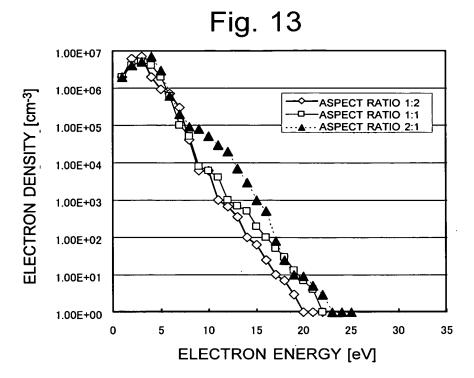


Fig. 14

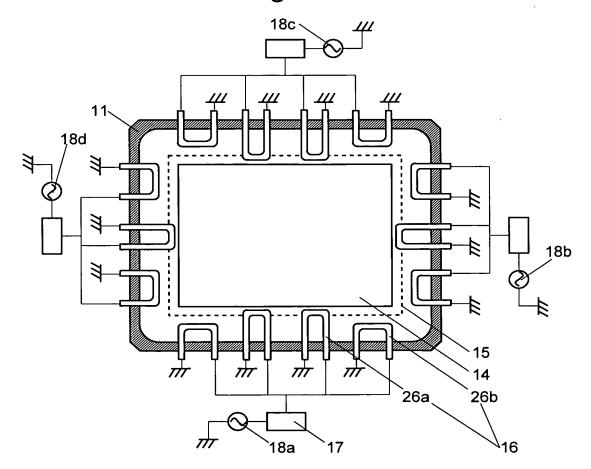


Fig. 15A ION SATURATION **CURRENT DENSITY** [ $\mu$ A/cm<sup>-2</sup>] **RF POWER SOURCE 183** 50~55 45~50 40~45 35~40 RF POWER SOURCE 184 RF POWER SOURCE 182 C D 5 5 1 2 3 4 RF POWER SOURCE 181 ION SATURATION **CURRENT DENSITY** Fig. 15B  $[\mu \text{ A/cm}^{-2}]$ **RF POWER SOURCE 183** 50~55 45~50 40~45 35~40 RF POWER SOURCE 184 B 30~35 RF POWER SOURCE 182 **5**E 1 2 3 4

RF POWER SOURCE 181

Fig. 16

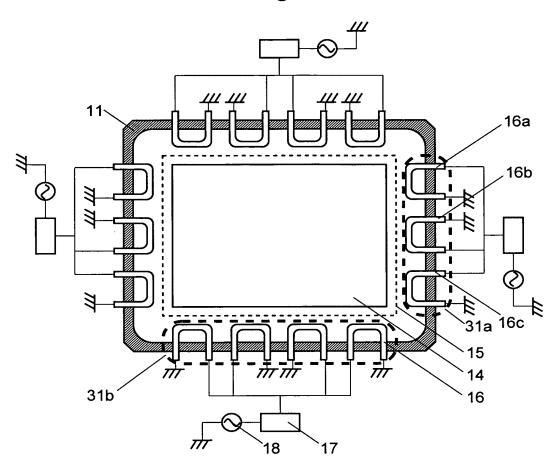


Fig. 17A

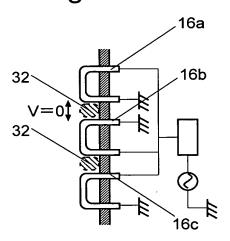
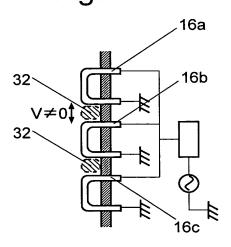


Fig. 17B





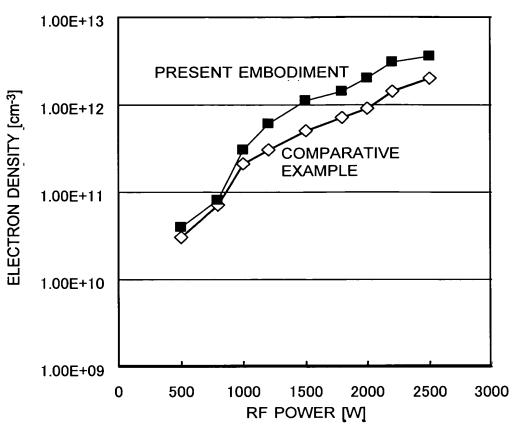


Fig. 19

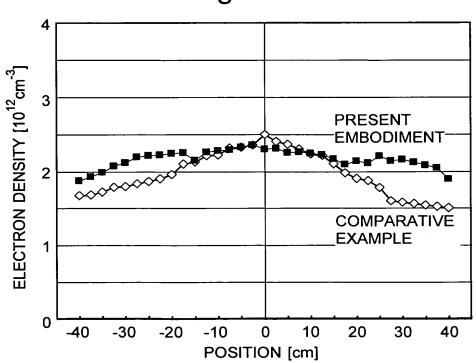


Fig. 20

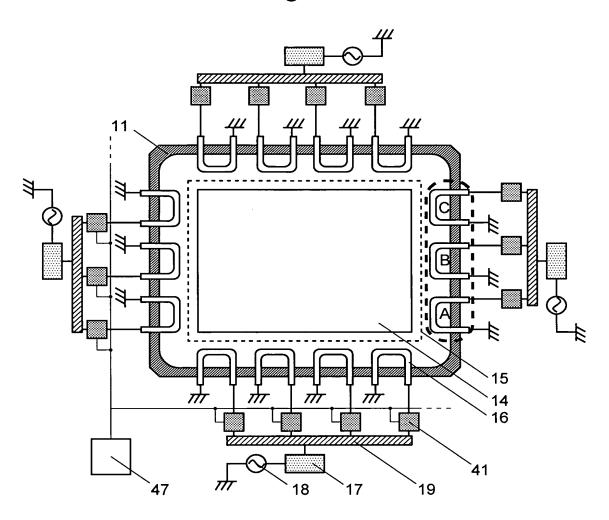


Fig. 21

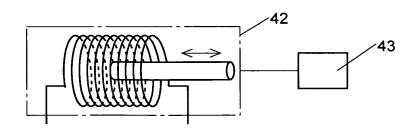


Fig. 22

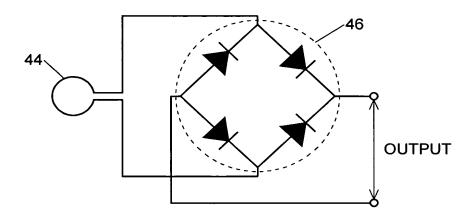


Fig. 23

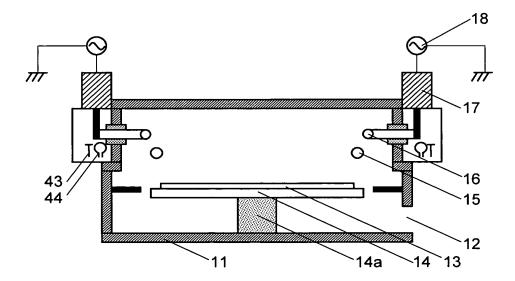


Fig. 24

